

FIG. 1

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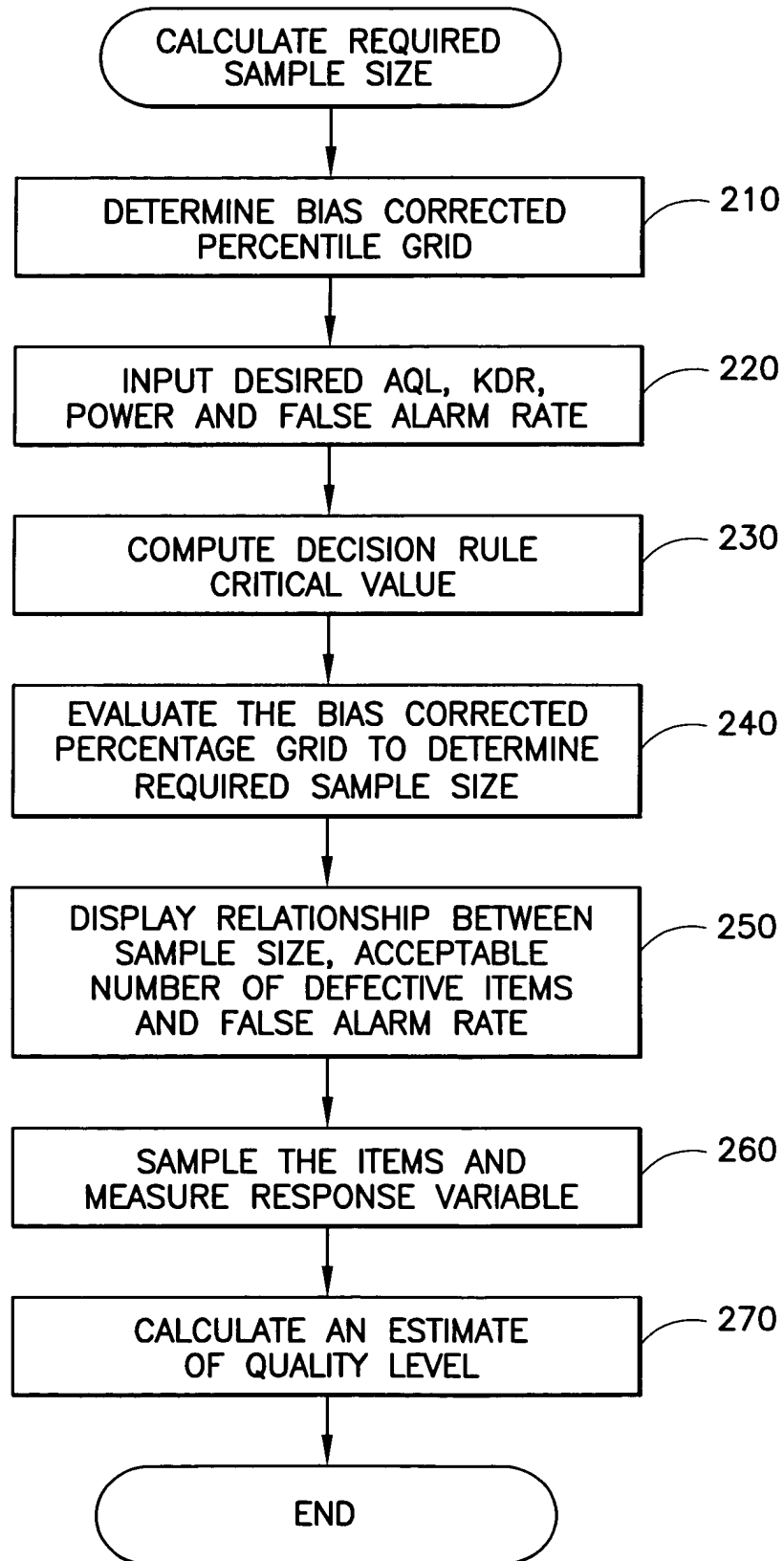


FIG.2

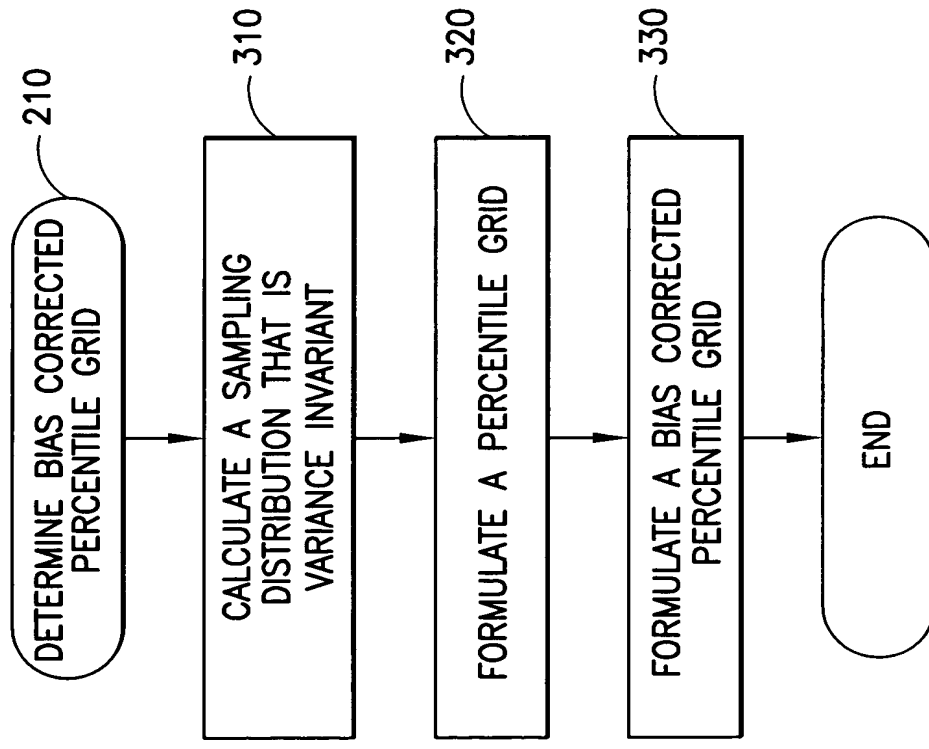


FIG.3

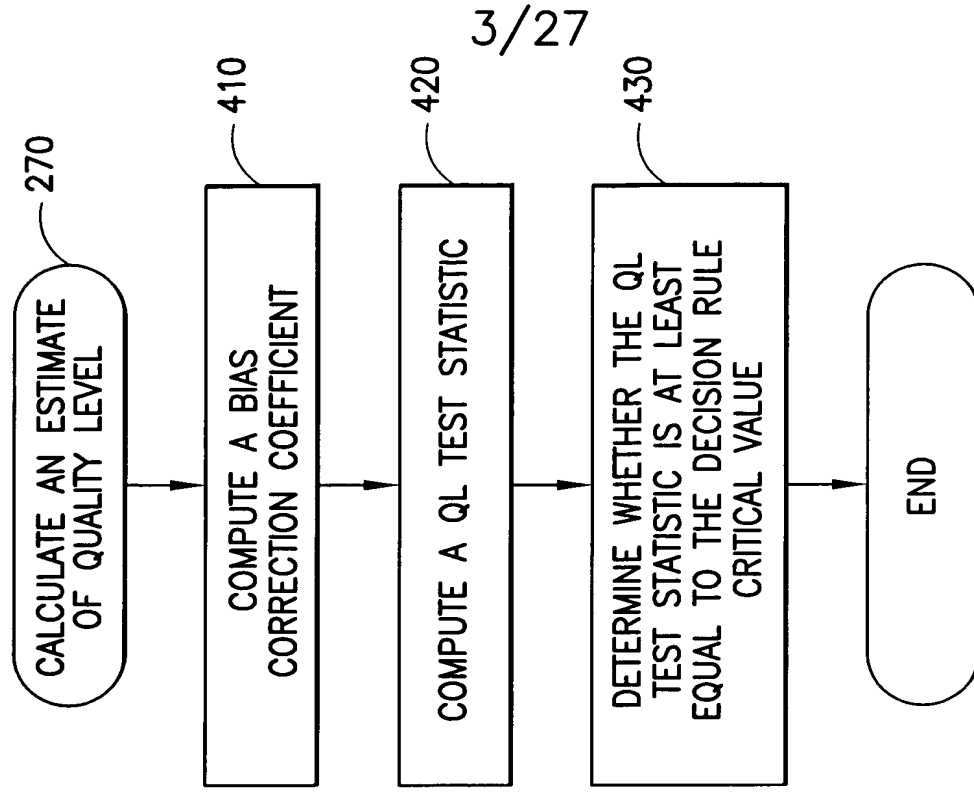


FIG.4

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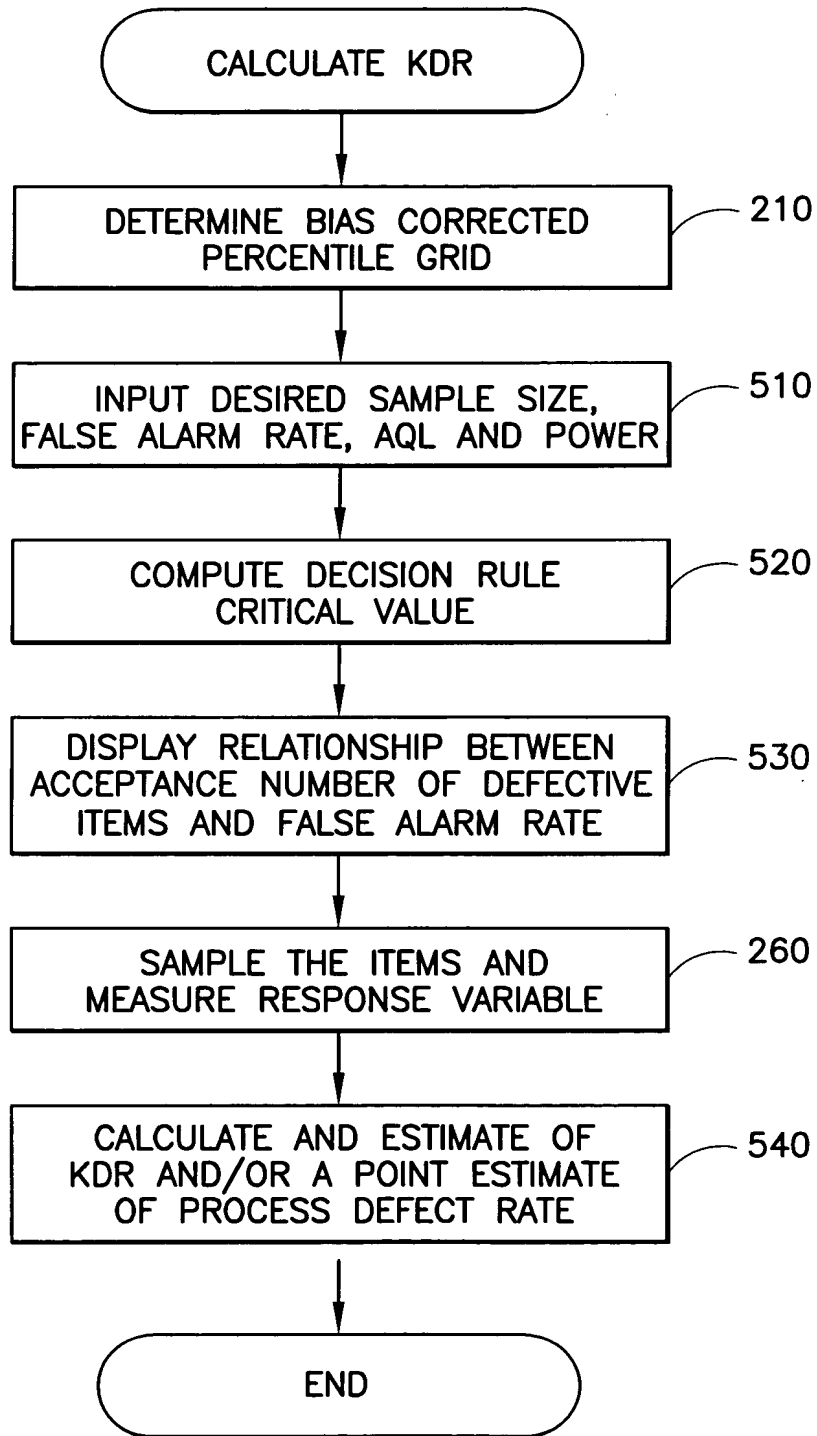


FIG.5

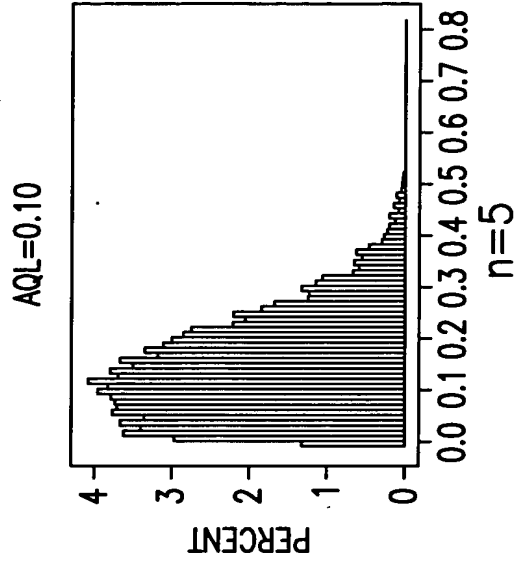


FIG. 6B

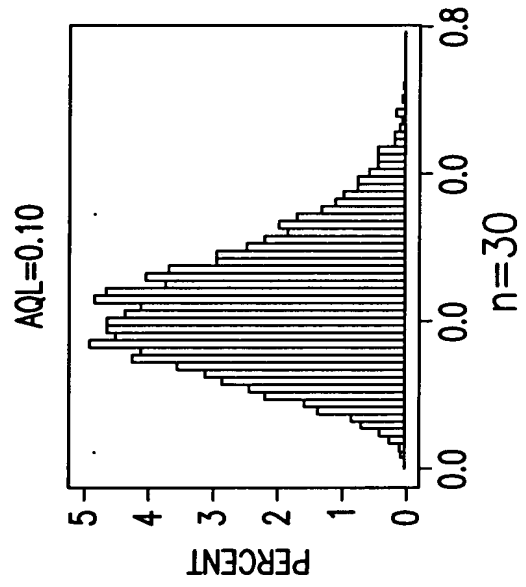


FIG. 6D

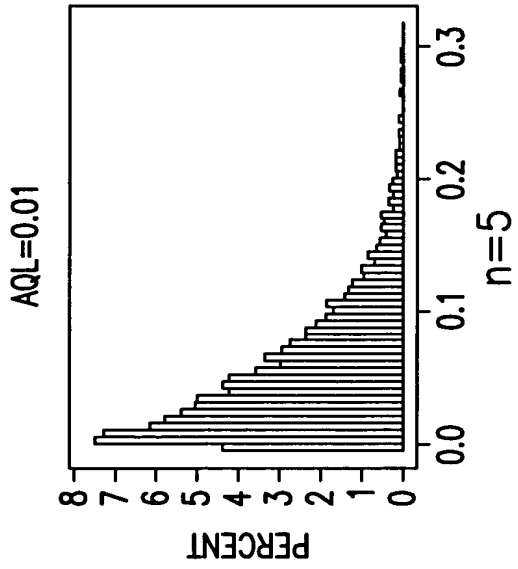


FIG. 6A

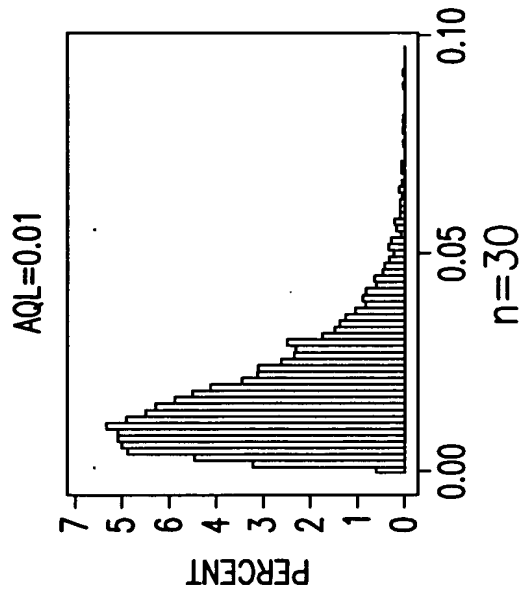


FIG. 6C

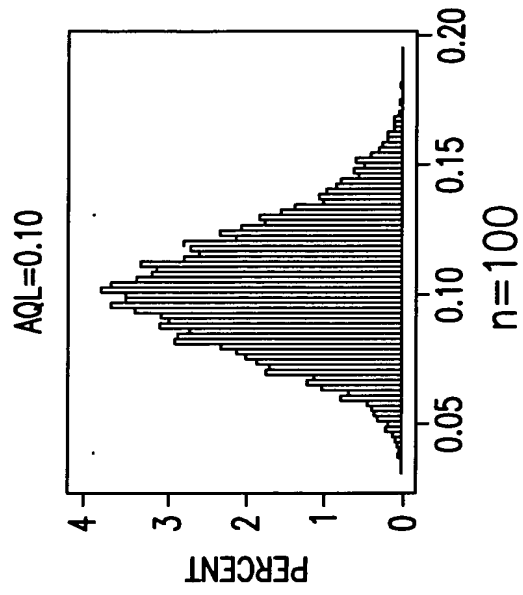


FIG.6F

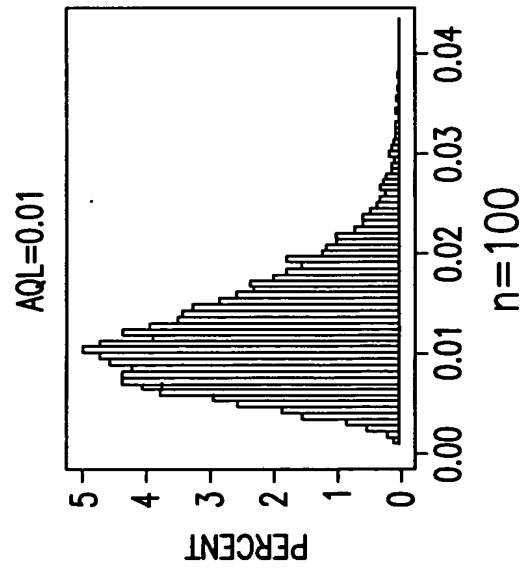


FIG.6E

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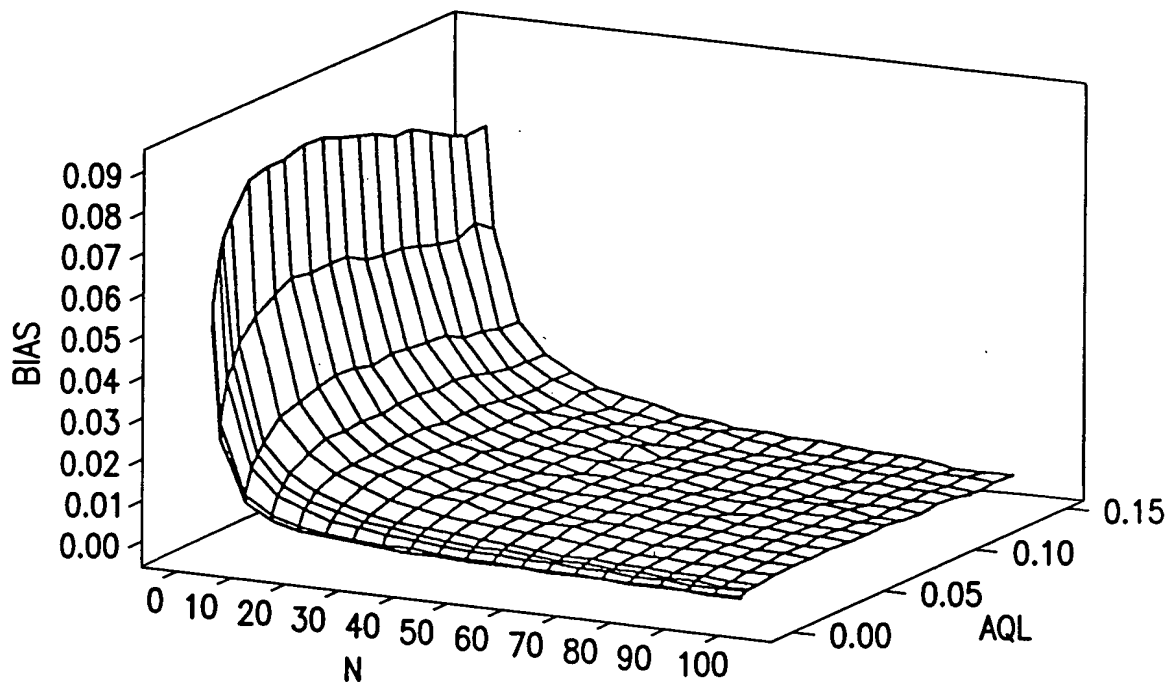


FIG.7

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BIAS CURVE, AQL=0.01

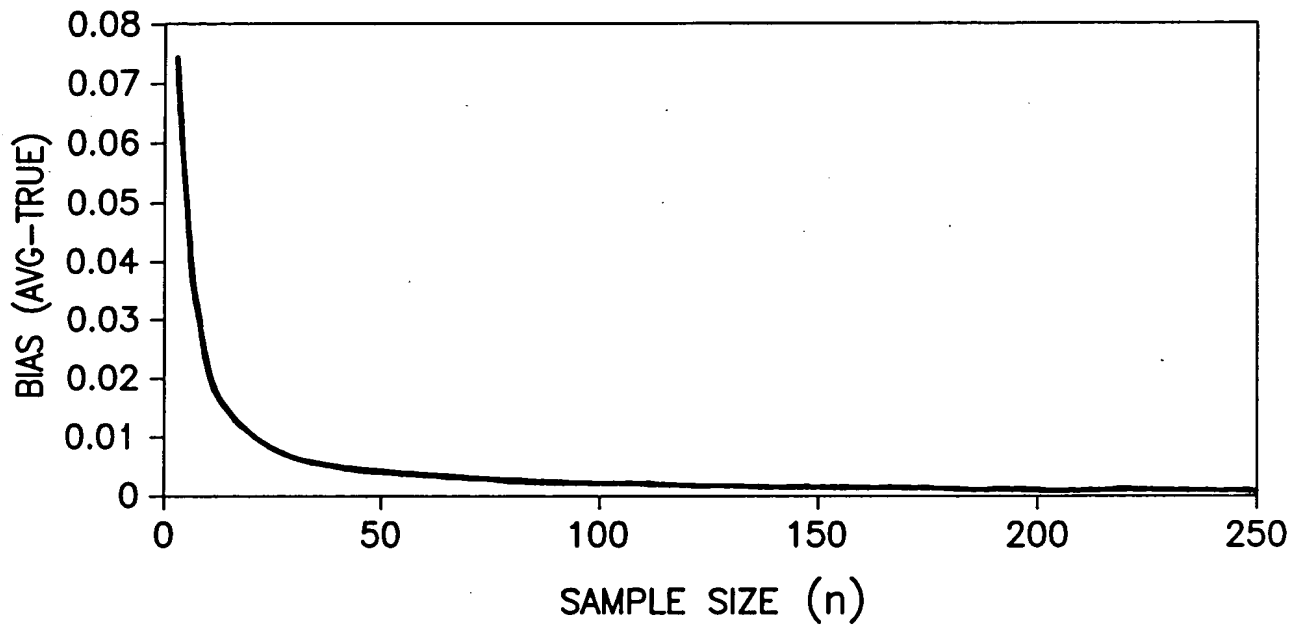


FIG.8A

BIAS CURVE, AQL=0.10

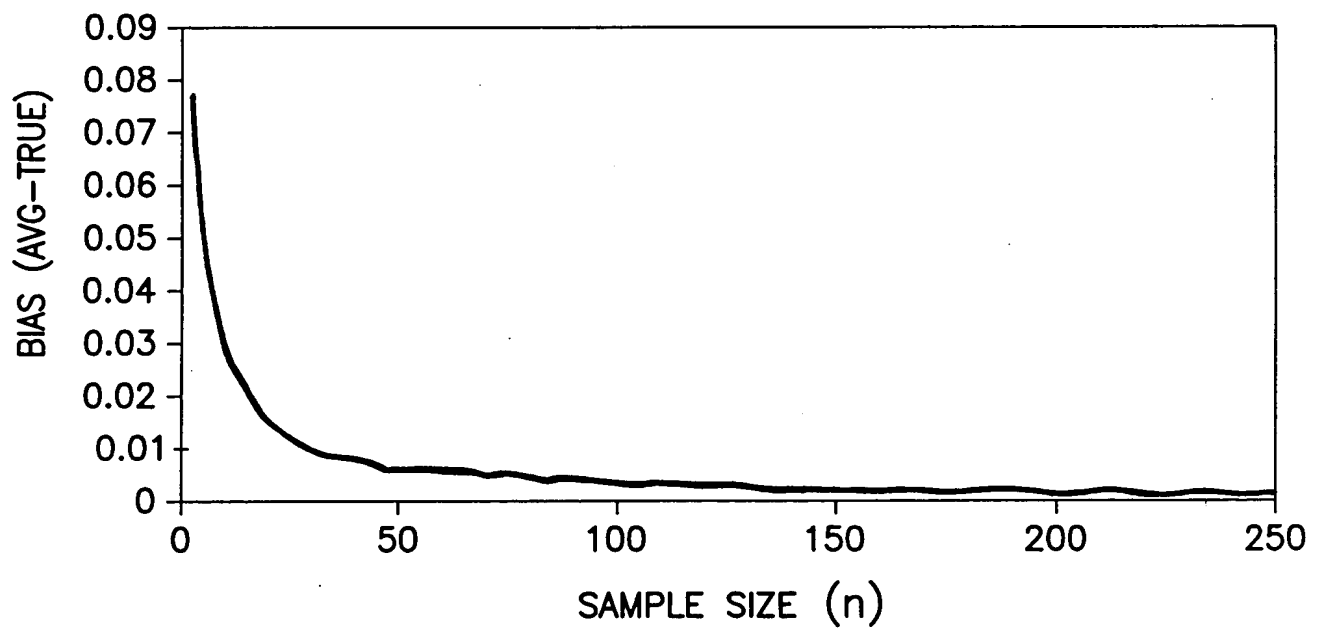


FIG.8B

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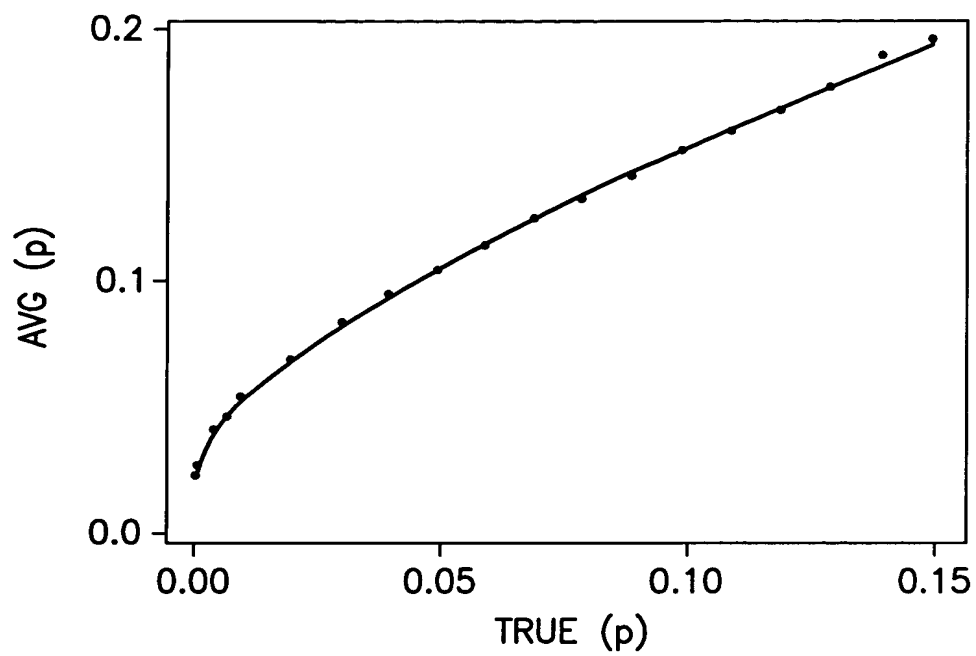


FIG.9A

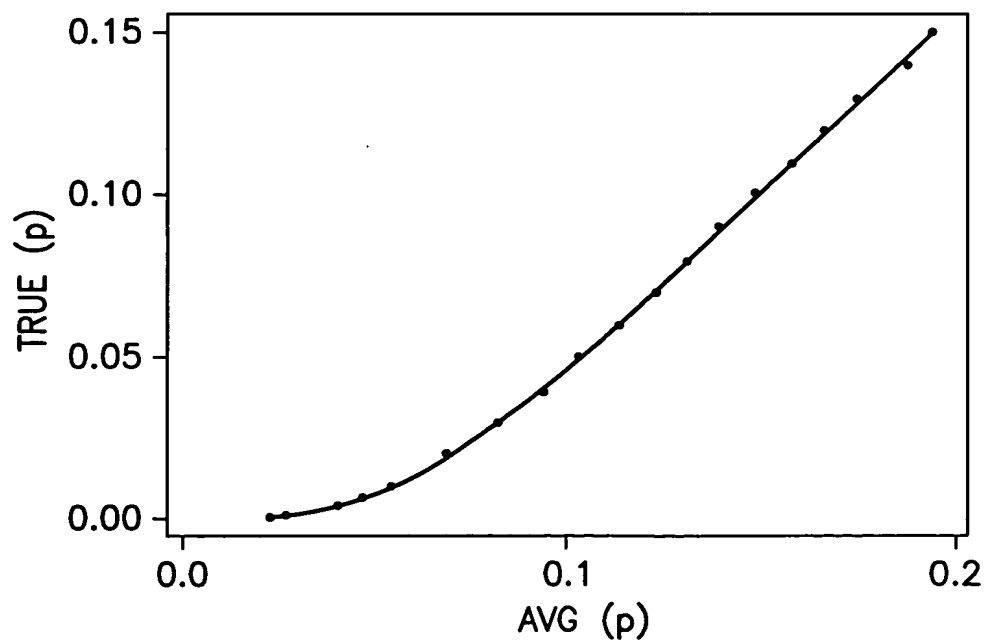


FIG.9B

Use Ctrl 0 to Copy the 3 charts



FIG. 10B

FIG. 11A

FIG. 11A

FIG. 11B

Ready	<div> <div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div></div> <div></div> </div> </div>
-------	--

FIG. 11B

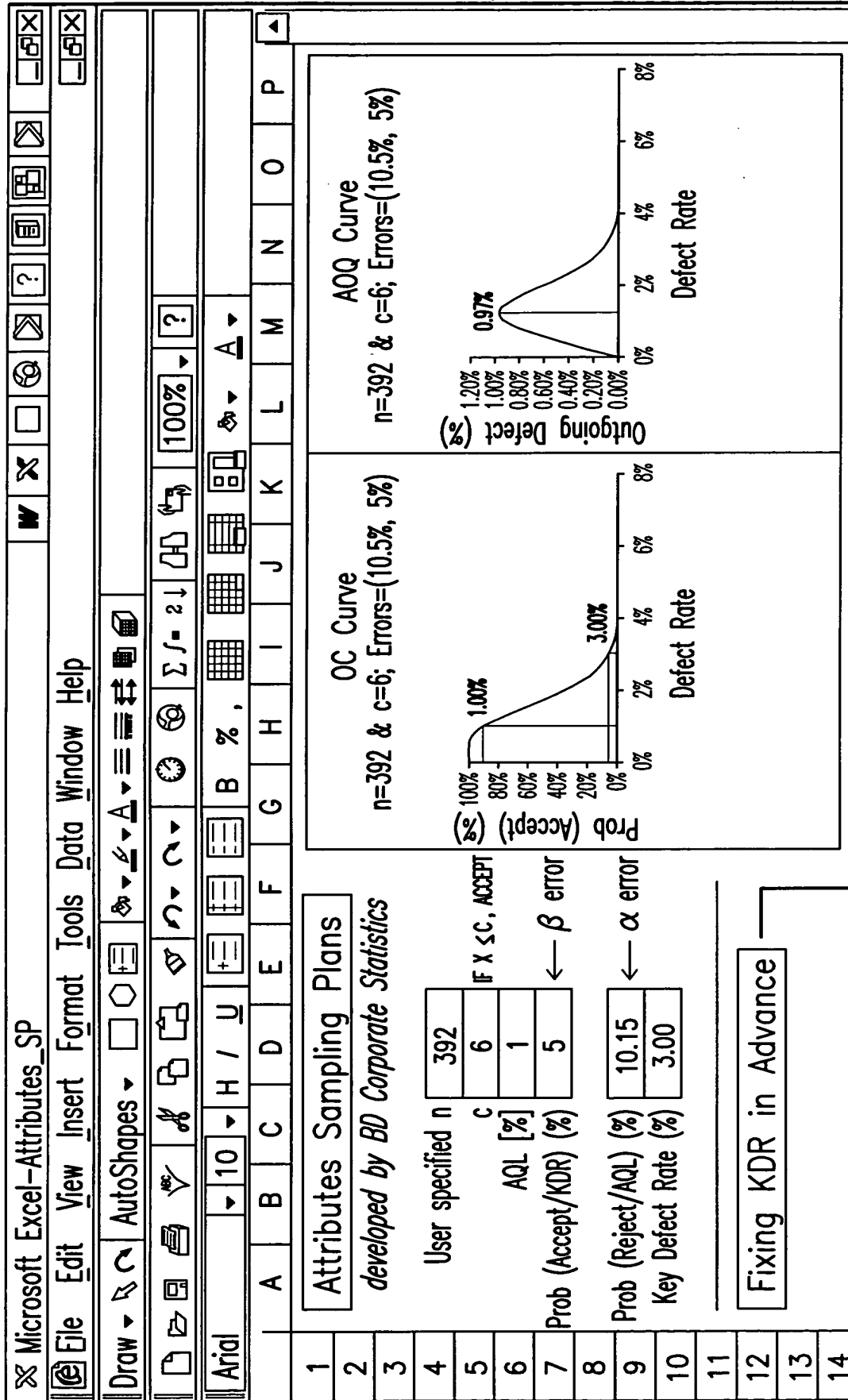


FIG. 13A

FIG. 13A

FIG. 13B

15	
16	
17	Desired KDR (%) <input type="text" value="3"/>
18	Required n <input type="text" value="392"/>
19	under these conditions
20	c <input type="text" value="6"/>
21	AQL [%] <input type="text" value="1.00"/>
22	Target α (%) <input type="text" value="10.00"/>
23	True β error (%) <input type="text" value="4.98"/>
24	True α (%) <input type="text" value="10.15"/>
25	
26	USE F9 KEY TO RECALCULATE SHEET
27	Plot Controls
28	
29	OC & AOQ Curves
30	Max Rate (%) <input type="text" value="6"/>
31	
32	Maintaining the Key Defect Rate
33	<input type="text" value="15"/> Max c <input type="text" value="10"/> Target α (%)
34	Use Ctrl 0 to Copy the 3 charts
35	
36	

Maintaining the Key Defect Rate

Target: KDR=3% with at least 95% power: AQL=1%

c	Type I Error, α (%)
0	99
1	167
2	208
3	267
4	303
5	348
6	(392)
7	436
8	478
9	521
10	562
11	604
12	645
13	686
14	726
15	766

Recommendation:
Type I Error is 10.15%
at n=392 & c=6

FIG.13B

[illegible]

FIG. 14A

FIG. 14A

FIG. 14B

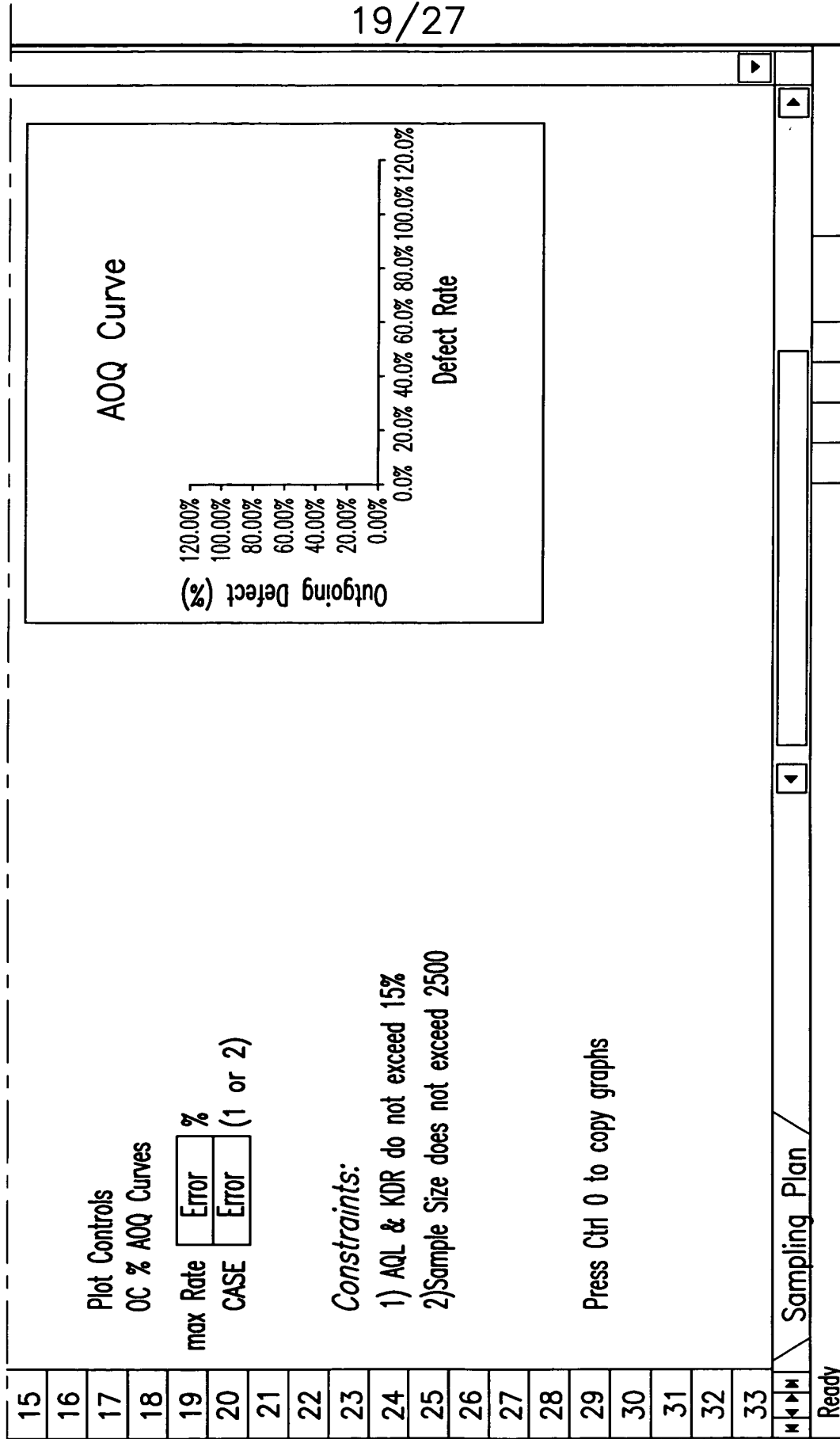


FIG.14B

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Variable Data Sampling Plans																	
2	<i>Based on the QL Test, developed by BD Corporate Statistics</i>																	
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		

	CASE 1	CASE 2
key defect rate (KDR)	%	sample size (n) 50
sample size (n)	Error	4.834 %
test cutoff (K)	Error %	2.263 %
estimated power	Error %	

	AQL	α	power
	0.65 %	5 %	95 % = 1 - β

OC Curve
 $n=50$, $AQL=0.65\%$, $KDR=4.83\%$

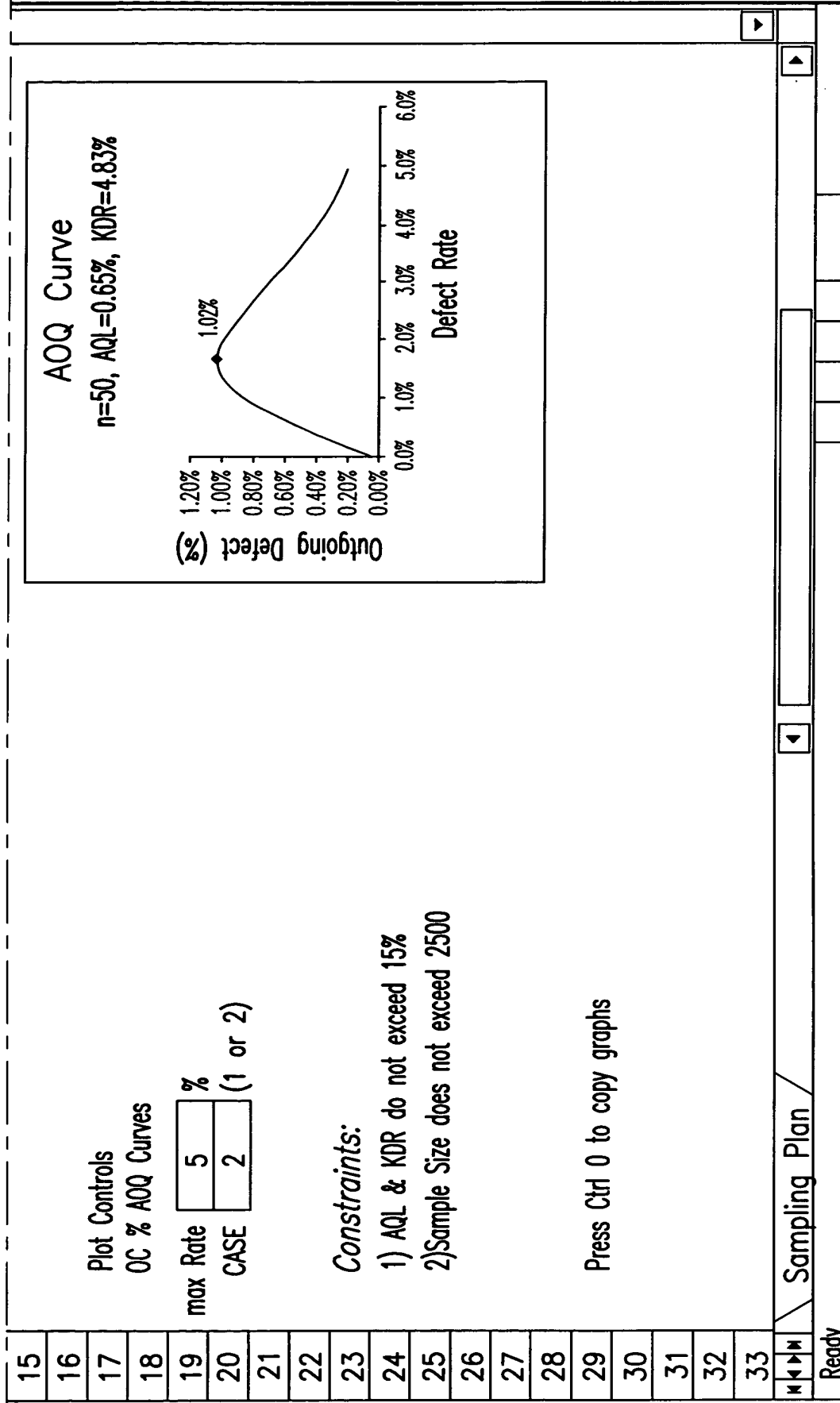


FIG.15B

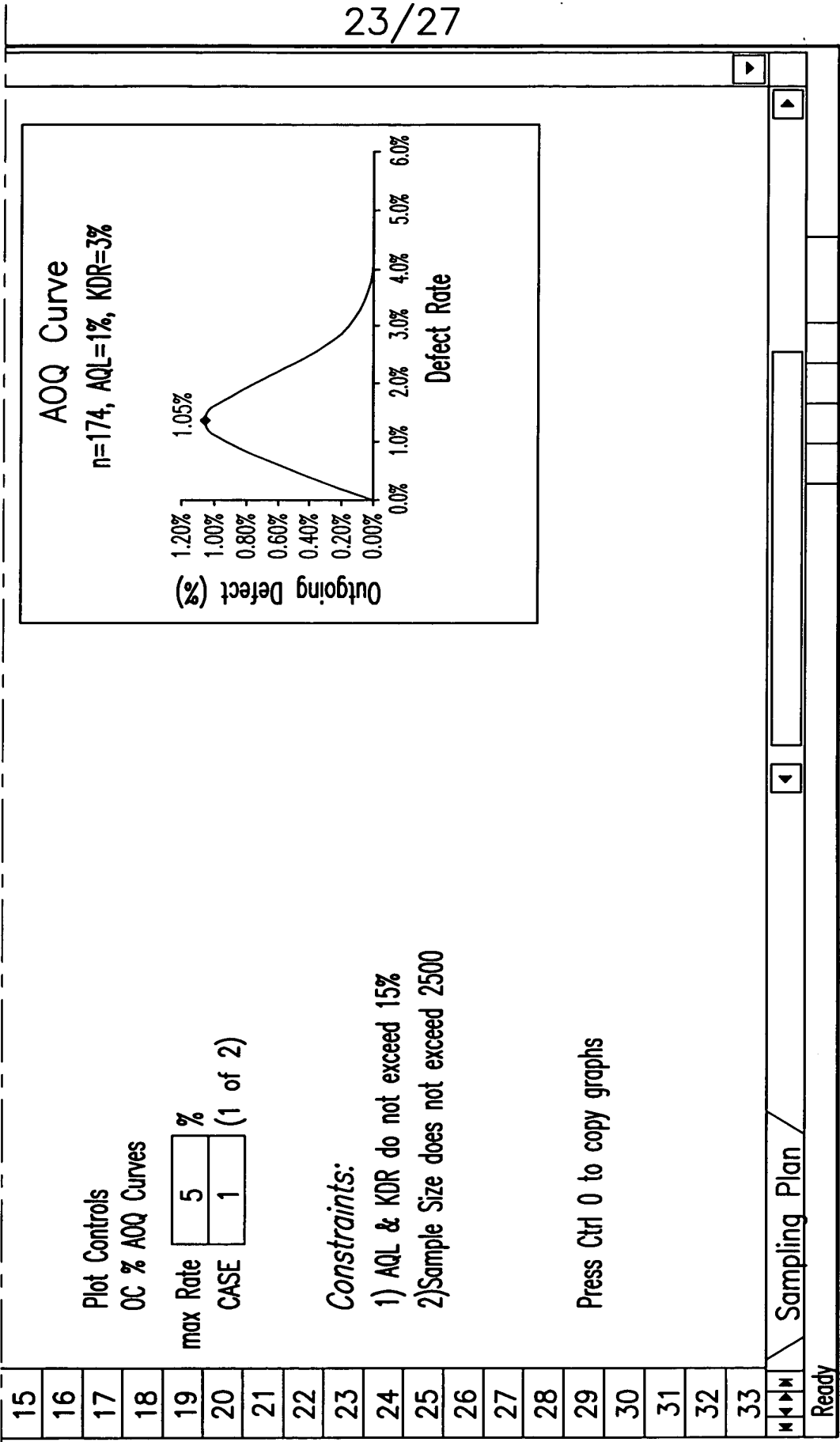


FIG.16B

Microsoft Excel-Attributes_SP

FileEditViewInsertFormatToolsDataWindowHelp

DrawAutoShapes

100%

Arial

10

H / U

B % ,

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

QL Test Data Analysis (Variable Data)

Developed by BD Corporate Statistics

Name

Separation Force

LSL

USL

AQL

KDR

K

α

power

1

3

1.86

5

95

%

%

%

%

%

Left Tailed Specifications Test

DATA

1

2

3

14.8172

10.5671

11.4874

Summary

Average:

Standard Deviation:

Sample Size:

12.9469

2.0411

174

Data Analysis: Separation Force

AQL of 1% versus KDR 3%

FIG.18A

FIG.18B

FIG.18A

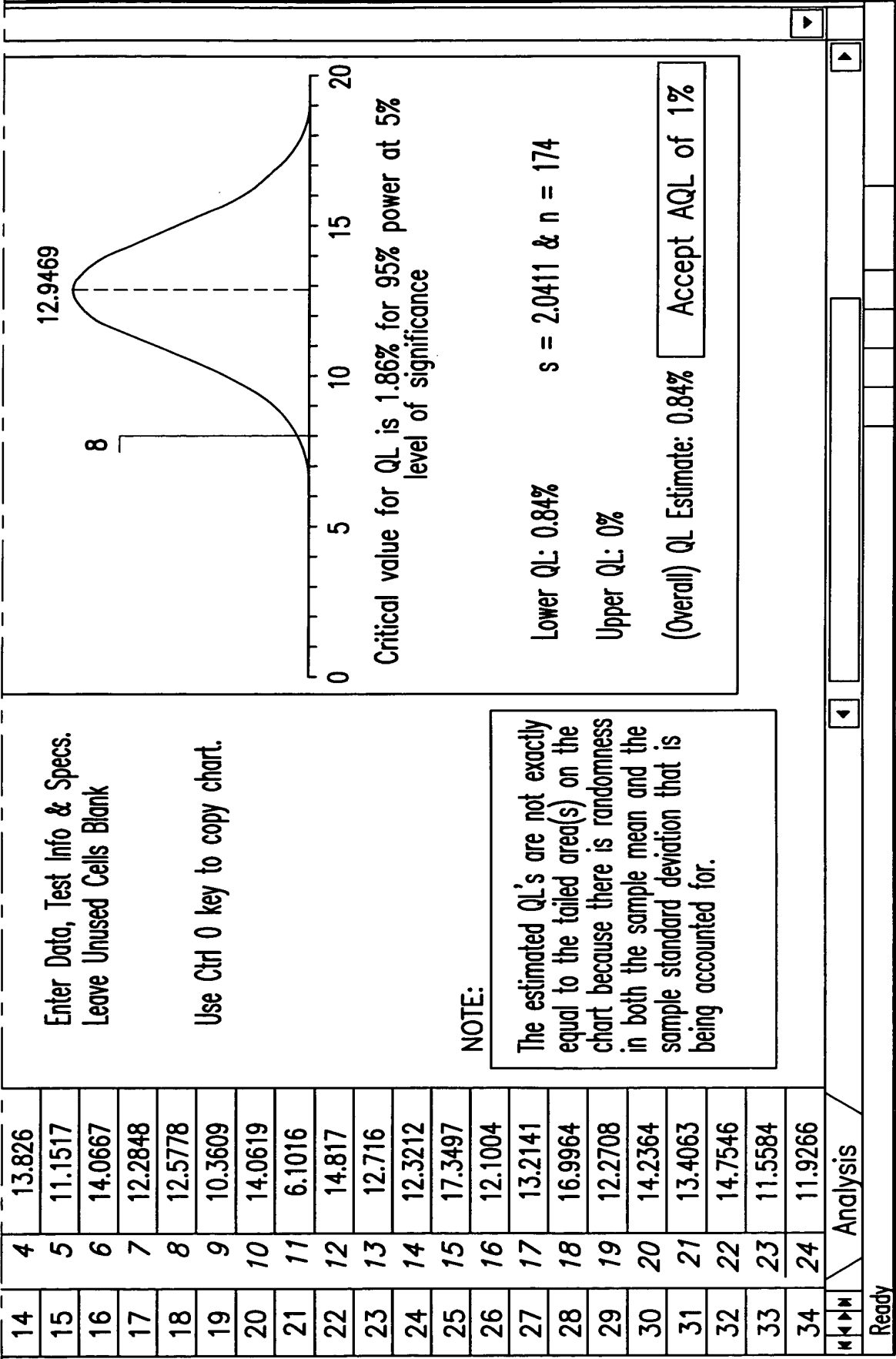


FIG.18B